| INFORMATION DISCLOSURE STATEMENT  IN AN APPLICATION | 12008.39USC1 Applicant: SAY ET AL. | Unknwen 10/123381       |
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| Ð                   | 3,260,656    | 07/12/1966 | Ross, Jr.          |       | /        |                               |
| 1                   | 3,653,841    | 04/04/1972 | Klein              |       | /        |                               |
|                     | 3,719,564    | 03/06/1973 | Lilly, Jr. et al.  |       | 7        |                               |
|                     | 3,776,832    | 12/04/1973 | Oswin et al.       |       | /        |                               |
|                     | 3,837,339    | 09/24/1974 | Aisenberg et al.   |       | /        |                               |
|                     | 3,972,320    | 08/03/1976 | Kalman             |       | 7        |                               |
|                     | 3,979,274    | 09/07/1976 | Newman             |       | 7        |                               |
|                     | 4,008,717    | 02/22/1977 | Kowarski           |       |          |                               |
|                     | 4,016,866    | 04/12/1977 | Lawton             |       |          |                               |
|                     | 4,055,175    | 10/25/1977 | Clemens et al.     | /     | \        |                               |
|                     | 4,059,406    | 11/22/1977 | Fleet              | 7     |          |                               |
|                     | 4,076,596    | 02/28/1978 | Connery et al.     | 7     |          |                               |
|                     | 4,098,574    | 07/04/1978 | Dappen             | 7     |          |                               |
|                     | 4,100,048    | 07/11/1978 | Pompei et al.      |       |          |                               |
|                     | 4,151,845    | 05/01/1979 | Clemens            |       |          |                               |
|                     | 4,168,205    | 09/18/1979 | Danninger et al.   |       |          |                               |
|                     | 4,172,770    | 10/30/1979 | Semersky et al.    |       |          |                               |
|                     | 4,178,916    | 12/18/1979 | McNamara           |       |          |                               |
|                     | 4,206,755    | 06/10/1980 | Klein              |       |          |                               |
|                     | 4,224,125    | 09/23/1980 | Nakamura et al.    |       |          |                               |
|                     | 4,240,438    | 12/23/1980 | Updike et al.      |       |          |                               |
|                     | 4,240,889    | 12/23/1980 | Yoda et al.        |       |          |                               |
|                     | 4,247,297    | 01/27/1981 | Berti et al.       |       |          |                               |
|                     | 4,271,119    | 06/02/1981 | Columbus           |       |          |                               |
|                     | 4,318,784    | 03/09/1982 | Higgins et al.     |       |          |                               |
|                     | 4,340,458    | 07/20/1982 | Lerner et al.      |       |          |                               |
| R                   | 4,356,074    | 10/26/1982 | Johnson            |       | l l      |                               |

| EXAMINER John John   | DATE CONSIDERED 3/15/05   |
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| EXAMINER: Initial if reference considered, whether or not citation is in conformation considered. Include copy of this form for next communication to the Applicant. | mance with MPEP 609; draw line through citation if not in conformance and not |

| FORM 1449* INFORMATION DISCLOSURE STATEMENT | Docket Number:<br>12008.39USC1 | Application Number:  Unknown 10/72338/ |  |  |
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| IN AN APPLICATION                           | Applicant: SAY ET AL           |  |  |  |
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| EXAMINER<br>INITIAL | DOCUMENT NO. | DATE       | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE         |
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|                     | 4,366,033    | 12/28/1982 | Richter et al.  |       |          |                                       |
|                     | 4,375,399    | 03/01/1983 | Havas et al.    |       |          |                                       |
|                     | 4,384,586    | 05/24/1983 | Christiansen    |       |          |                                       |
|                     | 4,392,933    | 07/12/1983 | Nakamura et al. |       |          |                                       |
|                     | 4,401,122    | 08/30/1983 | Clark, Jr.      |       |          |                                       |
|                     | 4,404,066    | 09/13/1983 | Johnson         |       |          |                                       |
|                     | 4,407,959    | 10/04/1983 | Tsuji et al.    |       |          | 1.72.1.1.                             |
|                     | 4,418,148    | 11/29/1983 | Oberhardt       |       |          |                                       |
|                     | 4,420,564    | 12/13/1983 | Tsuji et al.    |       |          | <del></del>                           |
|                     | 4,427,770    | 01/24/1984 | Chen et al.     |       |          |                                       |
|                     | 4,431,004    | 02/14/1984 | Bessman et al.  |       |          |                                       |
|                     | 4,436,094    | 03/13/1984 | Cerami          |       |          |                                       |
|                     | 4,440,175    | 04/03/1984 | Wilkins         |       |          |                                       |
|                     | 4,444,892    | 04/24/1984 | Malmros         |       |          |                                       |
|                     | 4,450,842    | 05/29/1984 | Zick et al.     |       |          | · · · · · · · · · · · · · · · · · · · |
|                     | 4,461,691    | 07/24/1984 | Frank           |       |          |                                       |
|                     | 4,469,110    | 09/04/1984 | Slama           |       |          |                                       |
|                     | 4,477,314    | 10/16/1984 | Richter et al.  |       |          |                                       |
|                     | 4,483,924    | 11/20/1984 | Tsuji et al.    |       |          | · · · · · · · · · · · · · · · · · · · |
|                     | 4,484,987    | 11/27/1984 | Gough           |       |          |                                       |
|                     | 4,522,690    | 06/11/1985 | Venkatasetty    |       |          | -                                     |
|                     | 4,524,114    | 06/18/1985 | Samuels et al.  |       |          |                                       |
|                     | 4,526,661    | 07/02/1985 | Steckhan et al. |       |          |                                       |
|                     | 4,534,356    | 08/13/1985 | Papadakis       |       |          |                                       |
|                     | 4,538,616    | 09/03/1985 | Rogoff          |       |          |                                       |
| Ψ                   | 4,543,955    | 10/01/1985 | Schroeppel      |       |          |                                       |
| RI                  | 4,545,382    | 10/08/1985 | Higgins et al.  |       |          | <del></del>                           |

| EXAMINER (P) | DATE CONSIDERED | 3/15/05 |
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| FORM 1449* | INFORMATION DISCLOSURE STATEMENT  | Docket Number:<br>12008.39USC1 | Application Number:     |  |
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|            | IN AN APPLICATION                 | Applicant: SAY ET AL.          |                         |  |
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| EXAMINER<br>INITIAL | DOCUMENT NO. | DATE        | NAME                | CLASS | SUBCLASS     | FILING DATE<br>IF APPROPRIATE |
| P                   | 4,552,840    | 11/12/1985  | Riffer              |       |              |                               |
| 1                   | 4,560,534    | 12/24/1985  | Kung et al.         |       |              |                               |
|                     | 4,571,292    | 02/18/1986  | Liu et al.          |       |              |                               |
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|                     | 4,581,336    | 04/08/1986  | Malloy et al.       |       |              |                               |
|                     | 4,595,011    | 06/17/1986  | Phillips            |       |              |                               |
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|                     | 4,619,754    | 10/28/1986  | Niki et al.         |       |              |                               |
|                     | 4,633,878    | 01/06/1987  | Bombardieri         |       |              |                               |
|                     | 4,637,403    | 01/20/1987  | Garcia et al.       |       |              | <u></u>                       |
|                     | 4,650,547    | 03/17/1987  | Gough               |       |              |                               |
|                     | 4,654,197    | 03/31/1987  | Lilja et al.        |       |              |                               |
|                     | 4,655,880    | 04/07/1987  | Liu                 |       |              |                               |
|                     | 4,655,885    | 04/07/1987  | Hill et al.         |       |              |                               |
|                     | 4,671,288    | 06/09/1987  | Gough               |       |              |                               |
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|                     | 4,680,268    | 07/14/1987  | Clark, Jr.          |       |              |                               |
|                     | 4,682,602    | 07/28/1987  | Prohaska            |       |              |                               |
|                     | 4,684,537    | 08/04/1987  | Graetzel et al.     |       |              |                               |
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|                     | 4,711,245    | 12/08/1987  | Higgins et al.      |       |              |                               |
|                     | 4,717,673    | 01/05/1988  | Wrighton et al.     |       |              |                               |
|                     | 4,721,601    | 01/26/1988  | Wrighton et al.     |       |              |                               |
|                     | 4,726,378    | 02/23/1988  | Kaplan              |       |              |                               |
| 4,                  | 4,750,496    | 06/14/1988  | Reinhart et al.     |       |              |                               |
| A)                  | 4,757,022    | 07/12/1988  | Shults et al.       |       |              |                               |

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| FORM 1449* INFORMATION DISCLOSURE STATEMENT | Docket Number:<br>12008.39USC1 | Application Number:     |  |  |
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| IN AN APPLICATION                           | Applicant: SAY ET AL.          |                         |  |  |
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|---------------------|--------------|------------|--------------------|------|---|-----|-------|-------------------------------|
| R                   | 4,758,323    | 07/19/1988 | Davis et al.       |      |   |     |       |                               |
|                     | 4,759,371    | 07/26/1988 | Franetski          |      |   | ,   |       |                               |
|                     | 4,759,828    | 07/26/1988 | Young et al.       |      |   |     |       |                               |
|                     | 4,764,416    | 08/16/1988 | Ueyama et al.      |      |   |     |       |                               |
|                     | 4,776,944    | 10/11/1988 | Janata et al.      |      |   |     |       |                               |
|                     | 4,781,798    | 11/01/1988 | Gough              |      |   |     |       |                               |
|                     | 4,784,736    | 11/15/1988 | Lonsdale et al.    |      |   |     |       |                               |
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|                     | 4,805,624    | 02/21/1989 | Yao et al.         |      |   |     |       |                               |
|                     | 4,813,424    | 03/21/1989 | Wilkins            |      |   |     |       |                               |
|                     | 4,815,469    | 03/28/1989 | Cohen et al.       |      |   | •   |       |                               |
|                     | 4,820,399    | 04/11/1989 | Senda et al.       |      |   |     |       |                               |
|                     | 4,822,337    | 04/18/1989 | Newhouse et al.    |      |   |     |       |                               |
|                     | 4,830,959    | 05/16/1989 | McNeil et al.      |      |   |     |       |                               |
|                     | 4,832,797    | 05/23/1989 | Vadgama et al.     |      |   |     |       |                               |
|                     | 4,840,893    | 06/20/1989 | Hill et al.        |      |   |     |       |                               |
|                     | 4,848,351    | 07/18/1989 | Finch              |      |   |     |       |                               |
|                     | 4,871,351    | 10/03/1989 | Feingold           |      |   |     |       |                               |
|                     | 4,871,440    | 10/03/1989 | Nagata et al.      |      |   |     |       |                               |
|                     | 4,890,620    | 01/02/1990 | Gough              |      |   |     |       |                               |
|                     | 4,894,137    | 01/16/1990 | Takizawa et al.    |      |   |     |       |                               |
|                     | 4,897,162    | 01/30/1990 | Lewandowski et al. |      |   |     |       |                               |
|                     | 4,897,173    | 01/30/1990 | Nankai et al.      |      |   |     |       |                               |
|                     | 4,909,908    | 03/20/1990 | Ross et al.        |      |   |     |       |                               |
|                     | 4,911,794    | 03/27/1990 | Parce et al.       |      |   |     |       |                               |
|                     | 4,919,141    | 04/24/1990 | Zier et al.        |      |   |     |       | _                             |
| V                   | 4,919,767    | 04/24/1990 | Vadgama et al.     |      |   |     |       |                               |
| <i>(</i> 2)         | 4,923,586    | 05/08/1990 | Katayama et al.    |      |   |     |       |                               |

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| FORM 1449* INFORMATION DISCLOSURE STATEMENT | Docket Number:<br>12008.39USCI | Application Number:  Unknwon- [0] 72336 |  |
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| IN AN APPLICATION                           | Applicant: SAY ET AL.          |   |  |
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| 1                   | 4,935,105    | 06/19/1990 | Churchouse       |       |          |                               |
|                     | 4,935,345    | 06/19/1990 | Guilbeau et al.  |       |          |                               |
|                     | 4,936,956    | 06/26/1990 | Wrighton         |       |          |                               |
|                     | 4,938,860    | 07/03/1990 | Wogoman          |       |          |                               |
|                     | 4,942,127    | 07/17/1990 | Wada et al.      |       |          |                               |
|                     | 4,945,045    | 07/31/1990 | Forrest et al.   |       |          |                               |
|                     | 4,950,378    | 08/21/1990 | Nagata           |       |          |                               |
|                     | 4,953,552    | 09/04/1990 | DeMarzo          |       |          |                               |
|                     | 4,968,400    | 11/06/1990 | Shimomura et al. |       |          |                               |
|                     | 4,970,145    | 11/13/1990 | Bennetto et al.  |       |          |                               |
|                     | 4,974,929    | 12/04/1990 | Ситу             |       |          |                               |
|                     | 4,986,271    | 01/22/1991 | Wilkins          |       |          |                               |
|                     | 4,994,167    | 02/19/1991 | Shults et al.    |       |          |                               |
|                     | 5,034,192    | 07/23/1991 | Wrighton et al.  |       |          |                               |
|                     | 5,037,527    | 08/06/1991 | Hayashi et al.   |       |          |                               |
|                     | 5,070,535    | 12/03/1991 | Hochmair et al.  |       |          |                               |
|                     | 5,078,854    | 01/07/1992 | Burgess et al.   |       |          |                               |
|                     | 5,082,550    | 01/21/1992 | Rishpon et al.   |       |          |                               |
|                     | 5,082,786    | 01/21/1992 | Nakamoto         |       |          |                               |
|                     | 5,089,112    | 02/18/1992 | Skotheim et al.  |       |          |                               |
|                     | 5,094,951    | 03/10/1992 | Rosenberg        |       |          |                               |
|                     | 5,096,560    | 03/17/1992 | Takai et al.     |       |          |                               |
|                     | 5,096,836    | 03/17/1992 | Macho et al.     |       |          |                               |
|                     | 5,101,814    | 04/07/1992 | Palti            |       |          |                               |
| <u></u>             | 5,108,564    | 04/28/1992 | Szuminsky et al. |       |          |                               |
| R)                  | 5,109,850    | 05/05/1992 | Blanco et al.    | T     |          |                               |

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| PORM 1449* INFORMATION DISCLOSURE STATEMENT | Docket Number:<br>12008.39USC1 | Application Number:  Unknwon   0   723 38 |  |
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| IN AN APPLICATION                           | Applicant: SAY ET AL.          |   |  |
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| EXAMINER<br>INITIAL | DOCUMENT NO. | DATE       | NAME                | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
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| 1                   | 5,120,421    | 06/09/1992 | Glass et al.        |       |          |                               |
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|                     | 5,174,291    | 12/29/1992 | Schoonen et al.     |       |          |                               |
|                     | 5,185,256    | 02/09/1993 | Nankai et al.       |       |          |                               |
|                     | 5,192,415    | 03/09/1993 | Yoshioka et al.     |       |          |                               |
|                     | 5,192,416    | 03/09/1993 | Wang et al.         |       |          |                               |
|                     | 5,198,367    | 03/30/1993 | Aizawa et al.       |       |          |                               |
|                     | 5,200,051    | 04/06/1993 | Cozzette et al.     |       |          |                               |
|                     | 5,202,261    | 04/13/1993 | Musho et al.        |       |          |                               |
|                     | 5,205,920    | 04/27/1993 | Oyama et al.        |       |          | •                             |
|                     | 5,206,145    | 04/27/1993 | Cattell             |       |          |                               |
|                     | 5,208,154    | 05/04/1993 | Weaver et al.       |       |          |                               |
|                     | 5,217,595    | 06/08/1993 | Smith et al.        |       |          |                               |
|                     | 5,227,042    | 07/13/1993 | Zawodzinski et al.  |       |          |                               |
|                     | 5,229,282    | 07/20/1993 | Yoshioka et al.     |       |          |                               |
| V                   | 5,250,439    | 10/05/1993 | Musho et al.        |       |          |                               |
| a                   | 5,262,035    | 11/16/1993 | Gregg et al.        |       |          |                               |

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| FORM 1449* INFORMATION DISCLOSURE STATEMENT |                       | Application Number:     |
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| IN AN APPLICATION                           | Applicant: SAY ET AL. |                         |
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| EXAMINER<br>INITIAL | DOCUMENT NO. | DATE       | NAME              | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
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| AP                  | 5,262,305    | 11/16/1993 | Heller et al.     |       |          | <del></del>                   |
| 1                   | 5,264,103    | 11/23/1993 | Yoshioka et al.   |       |          |                               |
|                     | 5,264,106    | 11/23/1993 | McAleer et al.    |       |          |                               |
|                     | 5,271,815    | 12/21/1993 | Wong              |       |          |                               |
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|                     | 5,320,725    | 06/14/1994 | Gregg et al.      |       |          |                               |
|                     | 5,326,449    | 07/05/1994 | Cunningham        |       |          |                               |
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|                     | 5,378,628    | 01/03/1995 | Grätzel et al.    |       |          |                               |
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|                     | 5,387,327    | 02/07/1995 | Khan              |       |          |                               |
|                     | 5,390,671    | 02/21/1995 | Lord et al.       |       |          |                               |
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| V                   | 5,395,504    | 03/07/1995 | Saurer et al.     | T     |          |                               |

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| FORM 1449* INFORMATION DISCLOSURE STATEMENT . | Docket Number:<br>12008.39USC1 | Application Number:     |  |
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| IN AN APPLICATION                             | Applicant: SAY ET AL           |                         |  |
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| EXAMINER<br>INITIAL | DOCUMENT NO. | DATE       | NAME              | CLASS    | SUBCLASS | FILING DATE<br>IF APPROPRIATE         |
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|                     | 5,422,246    | 06/06/1995 | Koopal et al.     |          |          |                                       |
| 7                   | 5,437,973    | 08/01/1995 | Vadgama et al.    |          |          |                                       |
|                     | 5,437,999    | 08/1995    | Diebold et al.    |          |          |                                       |
|                     | 5,478,751    | 12/26/1995 | Oosta et al.      |          |          | <del></del>                           |
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EXAMINER TO

DATE CONSIDERED

3/15/05